

## Title (en)

Static mixer and exhaust duct for a combustion system

## Title (de)

Statischer Mischer sowie Abgasleitung für eine Verbrennungsanlage

## Title (fr)

Mélangeur statique et tuyau de gaz d'échappement pour une installation de combustion

## Publication

**EP 0894523 A1 19990203 (DE)**

## Application

**EP 97112962 A 19970728**

## Priority

EP 97112962 A 19970728

## Abstract (en)

Static mixer (1) has a number of mixing element s (18) to vortex a fluid flowing through the mixer, which has a catalytically active TiO<sub>2</sub> coating (26) for the hydrolysis of a reductant, esp. urea. Also claimed is an exhaust gas line for a combustion device, esp. a diesel engine comprising an exhaust gas pipe (32), a feed pipe (36) for urea, and the mixer 91). A deNO<sub>x</sub> catalyst (46) for reducing NO<sub>x</sub> in the exhaust gas is connected to the mixer in the flow direction (27) of the exhaust gas (34).

## Abstract (de)

Erfindungsgemäß wird ein statischer Mischer (1) mit einer katalytisch aktiven Beschichtung (26) zur Hydrolyse von Harnstoff (40) in Ammoniak angegeben. Durch einen derartigen statischen Mischer (1) läßt sich ein Hydrolyse-Katalysator ersetzen. Das Bauvolumen eines Gesamtsystems zur katalytischen Entfernung von Stickoxiden mittels Harnstoff (40) nach dem Verfahren der selektiven katalytischen Reduktion verringert sich daher um den Raumbedarf eines Hydrolyse-Katalysators. <IMAGE>

## IPC 1-7

**B01D 53/86**; **B01F 5/06**; **B01J 35/02**; **F01N 3/28**

## IPC 8 full level

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## Citation (search report)

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